S
Insect Survey
Wasatch
Fall 1933

September 24, 1933

PROVO RIVER INSECT SURVEY-FALL 1933

INTRODUCTION:

An attempt is made to show briefly the findings of the insect survey conducted on the Provo River drainage. The lack of type maps and not being acquainted with the country made it somewhat difficult to always run sample strips through areas that were typical of the surrounding country. Acknowledgement is also made of the inaccuracy of the accompaning map showing area of lodgepole pine. When a cruise averaging only 1.95 percent was made, and only of the area known to contain lodgepole type the fallacy of attempting to draw a type map can be appreciated. In as much as some of the area shown as lodgepole type is composed of other species and there are many isolated areas of lodgepole not shown it is believed, that for the purpose of this survey, the area shown will give a fair estimate of the extent of lodgepole pine type in each unit.

METHODS USED IN SURVEY:

"Methods of Conducting Extensive Surveys of Mountain Pine Beetle Infestations in the Northern Rocky Mountain Region", by James C. Evenden, was used as a guide in conducting this survey. Due to being unacquainted with the topography and type areas it was not always possible for the cruisers to adhere to strip lines plotted in advance so that in many cases deviations were made depending upon the judgement of the cruiser. Some of the strip lines seem relatively short but when the distance from the main road is considered they show a fair days work.

GENERALY SUMMARY:

Of the four units comprising the Provo River area only one is alarming in new attacks found on strip lines. The Provo River unit shows an estimate of 8216N.A. or 1 N.A. per 1.9 acres. The

Shingle Creek units have areas considered in an epedemic stage but the entire units are not alarming. The Shingle Creek North Fork unit shows an estimate of 702 N.A. or 1 N.A. per 5.5 acres. Estimates show 832 N.A. in the Beaver Creek unit or 1 N.A. per 5.3 acres.

Mirror Lake unit is entirely in an endemic stage with 276 N.A. or 1 N.A. per 23.1 acres.

It is interesting that 215 N.A. were found on strip lines and only 98 R.T. This represents an increase of 219 percent.

~~INDIVIDUAL SECTIONS IN EACH UNIT~~ PROVO RIVER UNIT

In the Provo River unit 18 sections are considered epedemic. Two of these are alarming. Sec. 31-T 2S.R. 9E shows 1919 N.A. which is probably high. Sec. 36. in Spring Canyon also is alarming showing 1920 N.A. The other sections vary from 160 N.A. to 720 N.A. with an average of 254.& N.A. per section.

It is suggested that a more intensive survey be made, probably by a scout from the burning camp, of Sec. 8, 9, 20, 29, T.2S. R9E. and 29 T. 3N. R 8 E., S.L.M., all in the vicinity of Broadhead Meadows. This suggestion is made on the bases of R.T. found, nearness to epidemic areas and the finding of 4 N.A. near trail in last section mentioned above.

The Broadhead Meadows area is accessible by pack horses as is the area further south, i.e., Secs., 31, 32, 5, 7, and 8 by trail going up near infested area in Sec. 31. The area south and east of the Soapstone R.S. will probably have to be reached from the road or top of ridge to the south.

SHINGLE CREEK-NORTH FORK UNIT

Only two sections are considered epidemic in this unit. Sec. 16 shows 1200 N.A. and Sec. 18, 368 N.A. It is highly probable that this infestation extends into Sec. 17 and 21. There were also a number of N.A. noticed along North Fork creek from road to Sec. 15.

Sec. 18 is accessible by road from Shingle Creek while it is suggested Sec. 16 be reached, for control purposes, by following up ridge between Boulder and North Fork Creeks.

INDIVIDUAL SECTIONS IN EACH UNIT

In order to show the concentrated areas of N.A. in each unit the sections showing 160 N.A. or more ore segregated and shown in the accompanying table. These sections are also cross hatched in red on the map.

BEAVER CREEK UNIT

Only 3 areas are considered epidemic in this unit. Sec. 10, which is in a cut over area, shows 180 N.A. This area is accessible by trail from upper Setting or Yellow Pine Creeks. Sec. 16 has only a small area along Yellow Pine Creek, estimated at containing 206 N.A. This area is easily accessible. Sec. 34 and 35 are considered together as only a small, isolated stand is found including 170 N.A. also readily accessible from main road.

Submitted by

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9/24/33

Signed(Owen DeSpain)

Approved
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9/28/33

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Table showing results by units

Unit	Estimated Acreage L.P.	Acreage in L.P. Stripline	Strip Multiplier	No. of N.A.on Strip	Estimated No. N.A.	Acres Per N.A.	Percent Cruise	No.R.T. on strip line	Acres per R.T.	% increase N.A. over R.T.
Provo River	16,000	346.4	46.16	178	8216	1.9	2.1	76	4.5	234
Shingle Cr. North Fork	3,880	93.9	41.32	17	1568	5.5	2.4	10	9.3	170
BeaverCr.	4,480	86.2	51.97	16	832	5.3	1.9	9	9.5	155
MirrorLake	6,400	92.7	69.04	4	276	23.1	1.4	3	30.0	130

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Showing sections in each unit considered in epidemic stage

Unit - Provo River

Section	Township; Range	Estimated average LP	Acreage in LP strip	Strip Multiplier	No. of N.A. on strip	Estimated N.A. in Sec.	Acres Per N.A.	Remarks
16	T2SR9E	640	21.0	30.5	7	213.5	3	
17	"	640	18.3	34.9	8	279.2	2.3	
31	"	320	7.0	45.7	42	1919.4	.16	
32	"	640	8.0	80.0	2	160.0	4.0	
5	T3SR9E	640	8.0	80.0	2	160.0	4.0	
8	"	320	8.0	40.0	3	120.0	2.6	
7	"	320	8.0	40.0	2	80.0	4.0	
25	T2SR8E	640	8.0	80.0	2	160.0	4.0	
27	"	320	5.0	64.0	6	384.0	.8	
34	"	640	9.0	71.1	5	355.5	1.8	
35	"	640	8.0	80.0	7	560.0	1.1	
36	"	640	8.0	80.0	24	1920.0	.4	
9	T3SR8E	640	8.0	80.0	2	160.0	4.0	
10	"	640	8.0	80.0	9	720.0	.9	
11	"	320	9.0	37.1	3	111.3	5.7	
12	"	320	9.0	37.1	2	74.2	4.3	
6	"	320	7.0	35.0	9	315.0	1.1	
1	T3SR7E	160	7.0	22.8	18	324.0	.5	
		8840				8016.10		

PROVO RIVER INSECT SURVEY - FALL 1933

Showing sections in each unit considered in epidemic state

Unit - Shingle Creek - North Fork

Section	Township &Range	Estimated Average LP	Acreage in LP stripline	Strip Multiplier	No. of N.A. On strip	Estimated N.A. in sec.	Acres Per N.A.	Remarks
16	T2SR8E	640	8.0	80.0	15	1200	.53	
18	"	640	8.7	73.56	5	368	1.70	
		1280				1568		

Unit - Beaver Creek

Sections	Township &Range	Estimated acreage	Acreage in LP stripline	Strip Multiplier	No. N.A. on strip	Estimated N.A. in sec.	Acres per N.A.	Remarks
10	T2SR7E	640	8.0	80.0	2	160	4.0	
16	"	60	8.6	51.6	4	206	.29	
34 - 35	"	320	7.5	42.6	4	170	1.8	
		1020				436		